

FILE 'REGISTRY' ENTERED AT 11:03:57 ON 01 SEP 2009

L1 STRUCTURE UPLOADED

L2 1 S L1

L3 1 S L1 FAM

L4 33 S L1 FAM FULL

FILE 'HCAPLUS' ENTERED AT 11:05:13 ON 01 SEP 2009

L5 38 S L4

L6 3375 S ((PDE OR PHOSPHODIESTERASE)(W)(4 OR IV)) OR PDE4 OR PDEIV

L7 2 S L5 AND L6

L8 5606 S ANTICHOLINERGIC

L9 31 S L5 AND L8

L10 1 S L9 AND (PY<2002 OR AY<2002 OR PRY<2002)

=> file registry
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
0.22	0.22

FILE 'REGISTRY' ENTERED AT 11:03:57 ON 01 SEP 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 31 AUG 2009 HIGHEST RN 1178609-15-8
DICTIONARY FILE UPDATES: 31 AUG 2009 HIGHEST RN 1178609-15-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

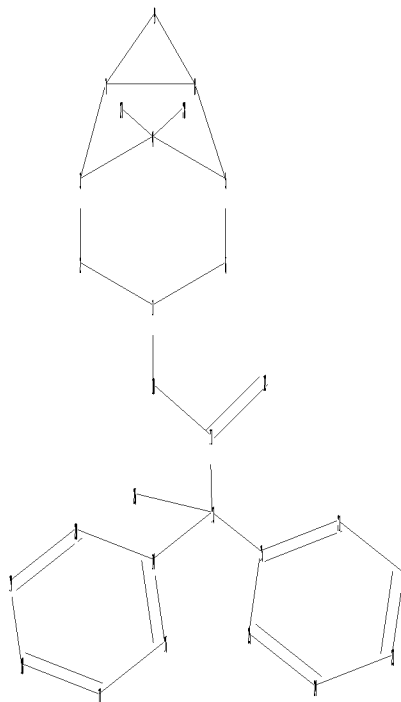
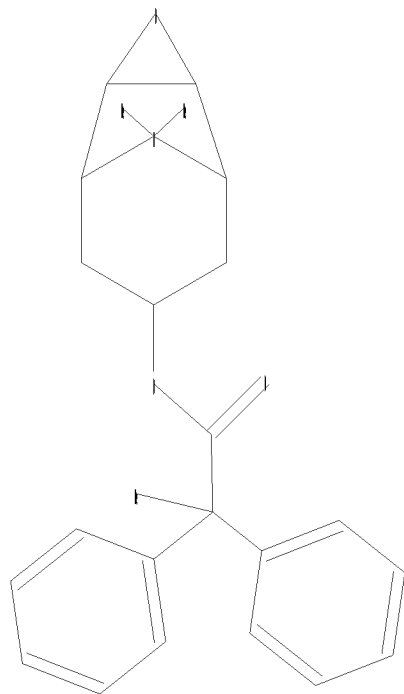
TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>
Uploading C:\Program Files\STNEXP\Queries\10614365.str



chain nodes :
10 11 12 13 26 27 28
ring nodes :

```

1  2  3  4  5  6  7  8  9  14  15  16  17  18  19  20  21  22  23  24  25
chain bonds :
1-10  4-27  4-28  10-11  11-12  11-13  13-14  13-15  13-26
ring bonds :
1-2   1-6   2-3   3-4   3-7   4-5   5-6   5-8   7-8   7-9   8-9   14-16  14-20  15-21  15-25
16-17  17-18  18-19  19-20  21-22  22-23  23-24  24-25
exact/norm bonds :
1-2   1-6   1-10  2-3   3-4   3-7   4-5   5-6   5-8   7-8   7-9   8-9   10-11  11-12
exact bonds :
4-27  4-28  11-13  13-14  13-15  13-26
normalized bonds :
14-16  14-20  15-21  15-25  16-17  17-18  18-19  19-20  21-22  22-23  23-24  24-25

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```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom
22:Atom 23:Atom 24:Atom 25:Atom 26:CLASS 27:CLASS 28:CLASS

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L1 STRUCTURE UPLOADED

=> s l1

SAMPLE SEARCH INITIATED 11:04:11 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2 TO ITERATE

100.0% PROCESSED 2 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
PROJECTED ITERATIONS: 2 TO 124
PROJECTED ANSWERS: 1 TO 80

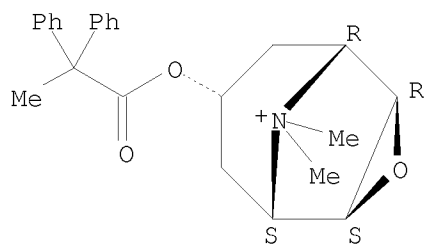
L2 1 SEA SSS SAM L1

=> d l2 scan

L2 1 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Oxa-9-azoniatricyclo[3.3.1.0^{2,4}]nonane,
 9,9-dimethyl-7-(1-oxo-2,2-diphenylpropoxy)-,
 (1 α ,2 β ,4 β ,5 α ,7 β)-, (2E)-2-butenedioate (1:1)
 (9CI)
MF C24 H28 N O3 . C4 H3 O4

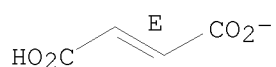
 CM 1

Relative stereochemistry.



CM 2

Double bond geometry as shown.



ALL ANSWERS HAVE BEEN SCANNED

=> s l1 fam

SAMPLE SEARCH INITIATED 11:04:31 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 2 TO ITERATE

100.0% PROCESSED 2 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 2 TO 124

PROJECTED ANSWERS: 1 TO 80

L3 1 SEA FAM SAM L1

=> s l1 fam full

FULL SEARCH INITIATED 11:04:52 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 39 TO ITERATE

100.0% PROCESSED 39 ITERATIONS

33 ANSWERS

SEARCH TIME: 00.00.01

L4 33 SEA FAM FUL L1

=> d l4 scan

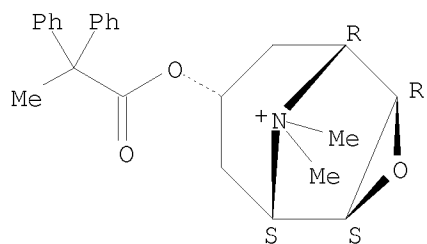
L4 33 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN

IN 3-Oxa-9-azoniatricyclo[3.3.1.0^{2,4}]nonane,
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(1 α ,2 β ,4 β ,5 α ,7 β)-, acetate (1:1)

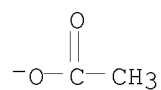
MF C24 H28 N O3 . C2 H3 O2

CM 1

Relative stereochemistry.



CM 2

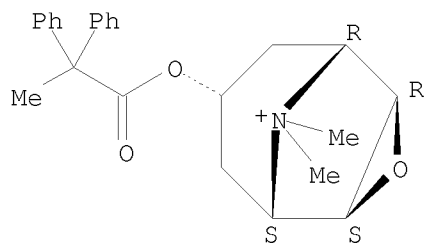


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

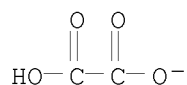
L4 33 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
 IN 3-Oxa-9-azoniatricyclo[3.3.1.0.2,4]nonane,
 9,9-dimethyl-7-(1-oxo-2,2-diphenylpropoxy)-,
 (1 α ,2 β ,4 β ,5 α ,7 β)-, ethanedioate (1:1) (9CI)
 MF C24 H28 N O3 . C2 H O4

CM 1

Relative stereochemistry.



CM 2

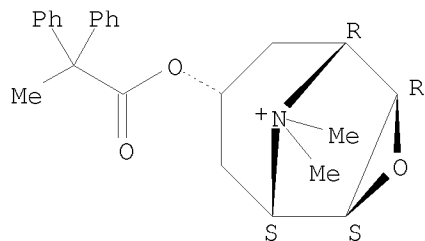


L4 33 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
 IN 3-Oxa-9-azoniatricyclo[3.3.1.0.2,4]nonane,
 9,9-dimethyl-7-(1-oxo-2,2-diphenylpropoxy)-,

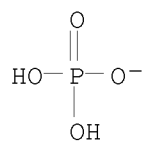
(1 α , 2 β , 4 β , 5 α , 7 β)-, phosphate (1:1) (9CI)
 MF C24 H28 N O3 . H2 O4 P

CM 1

Relative stereochemistry.



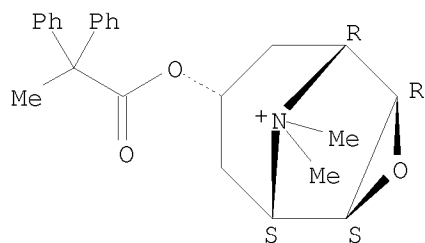
CM 2



L4 33 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
 IN 3-Oxa-9-azoniatricyclo[3.3.1.0.2,4]nonane,
 9,9-dimethyl-7-(1-oxo-2,2-diphenylpropoxy)-,
 (1 α , 2 β , 4 β , 5 α , 7 β)-, (2Z)-2-butenedioate (2:1)
 MF C24 H28 N O3 . 1/2 C4 H2 O4

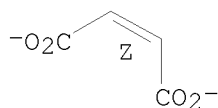
CM 1

Relative stereochemistry.



CM 2

Double bond geometry as shown.



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> file hcaplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

73.81

74.03

FILE 'HCAPLUS' ENTERED AT 11:05:13 ON 01 SEP 2009

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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FILE COVERS 1907 - 1 Sep 2009 VOL 151 ISS 10

FILE LAST UPDATED: 31 Aug 2009 (20090831/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

The ALL, BIB, MAX, and STD display formats in the CA/CAplus family of databases have been updated to include new citing references information. This enhancement may impact record import into database management software. For additional information, refer to NEWS 9.

=> s l4

L5 38 L4

=> s ((PDE or phosphodiesterase)(W)(4 or IV)) or PDE4 or PDEIV

6296 PDE

29740 PHOSPHODIESTERASE

6241603 4

561327 IV

2485 (PDE OR PHOSPHODIESTERASE)(W)(4 OR IV)

1707 PDE4
30 PDEIV
L6 3375 ((PDE OR PHOSPHODIESTERASE) (W) (4 OR IV)) OR PDE4 OR PDEIV

=> s 15 and 16

L7 2 L5 AND L6

=> d 17 1-2 ti abs bib

L7 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2009 ACS on STN

TI New pharmaceutical compositions for treatment of respiratory and gastrointestinal disorders

AB The present invention relates to novel pharmaceutical compns. comprising at least one EGFR kinase inhibitor and at least one addnl. active compound selected from beta-2 mimetics, steroids, PDE-IV inhibitors, p38 MAP kinase inhibitors, NK1 antagonists, anticholinergics and endothelin antagonists, processes for preparing the compns. and the use thereof as medicament in the treatment of respiratory or gastrointestinal complaints, as well as inflammatory diseases of the joints, the skin or the eyes.

AN 2008:529495 HCAPLUS <<LOGINID::20090901>>

DN 148:509924

TI New pharmaceutical compositions for treatment of respiratory and gastrointestinal disorders

IN Jung, Birgit; Himmelsbach, Frank; Pohl, Gerald

PA Boehringer Ingelheim International GmbH, Germany; Boehringer Ingelheim Pharma GmbH & Co.Kg

SO PCT Int. Appl., 96pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2008049842	A2	20080502	WO 2007-EP61355	20071023
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	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
	RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA			
	CA 2667543	A1	20080502	CA 2007-2667543	20071023
	EP 2086641	A2	20090812	EP 2007-821719	20071023
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PRAI	US 2006-862990P	P	20061026		
	WO 2007-EP61355	W	20071023		

L7 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2009 ACS on STN

TI Pharmaceutical compositions comprising anticholinergic agents and phosphodiesterase IV (PDE-IV)

inhibitors for the treatment of respiratory diseases

AB The invention provides pharmaceutical compns. comprising anticholinergic agents and PDE-IV inhibitors, as well as a method for

the production and use thereof in the treatment of respiratory diseases.
Powder inhalant formulations are included.

AN 2004:41257 HCAPLUS <<LOGINID::20090901>>
DN 140:87709
TI Pharmaceutical compositions comprising anticholinergic agents and
phosphodiesterase IV (PDE-IV)
inhibitors for the treatment of respiratory diseases
IN Pairet, Michel; Meade, Christopher John Montague; Pieper, Michael P.
PA Boehringer Ingelheim Pharma G.m.b.H. & Co. K.-G., Germany
SO PCT Int. Appl., 37 pp.
CODEN: PIXXD2
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004004704	A1	20040115	WO 2003-EP6668	20030625
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	DE 10230769	A1	20040122	DE 2002-10230769	20020709
	CA 2492026	A1	20040115	CA 2003-2492026	20030625
	AU 2003242755	A1	20040123	AU 2003-242755	20030625
	EP 1521576	A1	20050413	EP 2003-762509	20030625
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	JP 2005532379	T	20051027	JP 2004-518566	20030625
	US 20040058950	A1	20040325	US 2003-614365	20030707
PRAI	DE 2002-10230769	A	20020709		
	US 2002-407895P	P	20020903		
	WO 2003-EP6668	W	20030625		

OS MARPAT 140:87709

OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 11:03:36 ON 01 SEP 2009)

FILE 'REGISTRY' ENTERED AT 11:03:57 ON 01 SEP 2009

L1 STRUCTURE UPLOADED
L2 1 S L1
L3 1 S L1 FAM
L4 33 S L1 FAM FULL

FILE 'HCAPLUS' ENTERED AT 11:05:13 ON 01 SEP 2009

L5 38 S L4
L6 3375 S ((PDE OR PHOSPHODIESTERASE) (W) (4 OR IV)) OR PDE4 OR PDEIV
L7 2 S L5 AND L6

=> log hold

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

FULL ESTIMATED COST	ENTRY 11.70	SESSION 85.73
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.64	-1.64

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 11:06:10 ON 01 SEP 2009

Connecting via Winsock to STN

Welcome to STN International! Enter x:X

LOGINID:SSPTAEXO1623

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'HCAPLUS' AT 11:09:54 ON 01 SEP 2009
FILE 'HCAPLUS' ENTERED AT 11:09:54 ON 01 SEP 2009
COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)s

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	11.70	85.73
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.64	-1.64

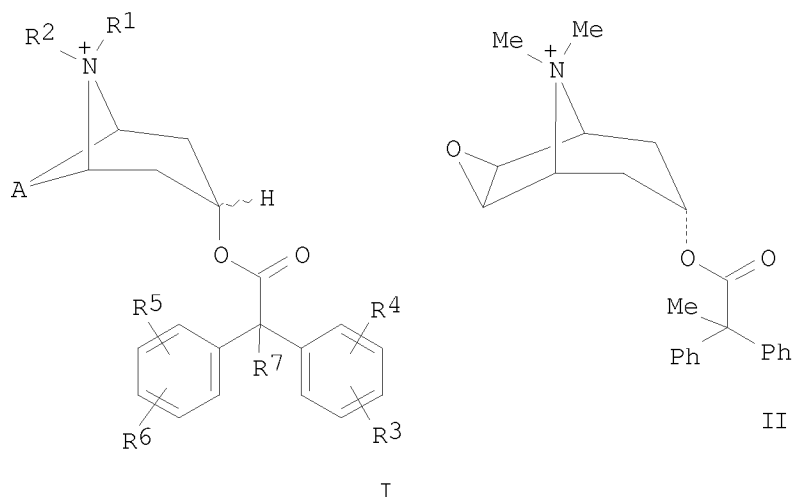
=> s anticholinergic
L8 5606 ANTICHOLINERGIC

=> s 15 and 18
L9 31 L5 AND L8

=> s 19 and (PY<2002 or AY<2002 or PRY<2002)
21993473 PY<2002
4224981 AY<2002
3692835 PRY<2002
L10 1 L9 AND (PY<2002 OR AY<2002 OR PRY<2002)

=> d 110 ti abs bib

L10 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2009 ACS on STN
TI Procedures for the production of new anticholinergic alkaloids
as well as for their use in medicines
GI



AB The present invention concerns new anticholinergics I·X- [A = CH₂CH₂, CH:CH, oxirane-2,3-diyl; X- = simple anion; R₁, R₂ = C1-4-alkyl, C1-4-hydroxyalkyl, C1-4-haloalkyl; R₃ - R₆ = H, C1-4-alkyl, C1-4-alkoxy, OH, CF₃, CN, NO₂, halogen; R₇ = H, C1-4-alkyl, C1-4-alkyloxy, C1-4-haloalkylene, C1-4-haloalkoxy, C1-4-hydroxyalkylene, CF₃, C1-4-alkylene- C1-4-alkoxy, OC(:O)-, C1-4-alkyl, OC(:O)-, C1-4-haloalkyl, OC(:O)CF₃, halogen] and their physiol. acceptable salts, procedures for their production as well as their use as drugs. Thus, scopine ester II·Br- was prepared from Ph₂CMeCO₂H via acyl chloride formation with (COCl)₂ in CH₂Cl₂ containing catalytic Me₂NCHO, esterification with scopine in CH₂Cl₂, and quaternization with MeBr in MeCN/CH₂Cl₂. Pharmaceutical formulations for use as tablets, in ampuls, in aerosols, in solution and as inhalants are presented.

AN 2002:291677 HCAPLUS <<LOGINID::20090901>>

DN 136:325718

TI Procedures for the production of new anticholinergic alkaloids as well as for their use in medicines

IN Meissner, Helmut; Morschhaeuser, Gerd; Pieper, Helmut; Pohl, Gerald; Reichl, Richard; Speck, Georg; Banholzer, Rolf

PA Boehringer Ingelheim Pharma K.-G., Germany

SO Ger. Offen., 16 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	WO 2002032899	A1	20020425	WO 2001-EP11226	20010928 <--
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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EE 200300151	A	20030616	EE 2003-151	20010928 <--
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EP 1325001	B1	20040218		
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JP 2004511557	T	20040415	JP 2002-536281	20010928 <--
JP 4109106	B2	20080702		
NZ 525836	A	20040924	NZ 2001-525836	20010928 <--
ES 2215147	T3	20041001	ES 2001-982374	20010928 <--
CN 1275962	C	20060920	CN 2001-817144	20010928 <--
AU 2002213975	B2	20061109	AU 2002-213975	20010928 <--
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HR 2003000278	B1	20060228	HR 2003-278	20030411 <--
KR 830359	B1	20080520	KR 2003-705256	20030414 <--
US 20040087617	A1	20040506	US 2003-684994	20031014 <--
HK 1060566	A1	20061229	HK 2004-103582	20040520 <--
US 20050197357	A1	20050908	US 2005-117163	20050428 <--
US 7569581	B2	20090804		
JP 2008120834	A	20080529	JP 2008-33492	20080214 <--
PRAI DE 2000-10050994	A	20001014	<--	
US 2000-252777P	P	20001122	<--	
EP 2001-982374	A3	20010928	<--	
JP 2002-536281	A3	20010928	<--	
WO 2001-EP11226	W	20010928	<--	
US 2001-976950	A1	20011011	<--	
US 2003-684994	A1	20031014		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS CASREACT 136:325718; MARPAT 136:325718

OSC.G 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT